

IN THE SPECIFICATION

Please replace paragraph 6 on page 12 with the following amended paragraph:

Fig. 5 is a flow chart for illustrating the process of detecting the space-time encoded signal according to the present invention.

In the Abstract

Please replace the current abstract with the following new abstract. Note that the new abstract is also attached to this response on a separate sheet. The new abstract is as follows:

An apparatus for detecting the signals of transmission diversity based on space-time coding is disclosed. The apparatus and method for detecting signals of space-time coding performs linear interpolation and linear filtering to calculate the channel estimate of each transmission symbol from the channel estimate of each slot, thus providing the correct channel estimate even in a channel with considerable fluctuation. Further, the output control with estimation of SIR only passes a proper output of the demodulating and detecting circuit to improve the signal to noise ratio, maintaining enough communication quality even in a bad communication environment.